

Amendments to the Specification:

Please delete the paragraph on page 1 after the title, and replace it with the following paragraph entitled “Cross-Reference to Related Applications”:

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a divisional of U.S. Patent Application No. 09/057,996, filed April 9, 1998, which claims the benefit of priority to provisional application serial no. under 35 U.S.C. § 119(e) of U.S. Patent Application Serial No. 60/041,815, filed on April 11, 1997. U.S. Patent Application No. 09/057,996 is herein incorporated by reference in its entirety.

On page 1, please add the following paragraph, after the paragraph entitled “Cross-Reference to Related Applications”:

INCORPORATION OF SEQUENCE LISTING

A paper copy of the Sequence Listing and a computer readable form of the sequence listing on diskette, containing the file named 16518131seq(ASFILED).txt, which is 54,544 bytes in size (measured in MS-DOS), and which was created on August 7, 2003, is herein incorporated by reference in its entirety.

Please delete the paragraph on page 3, line 14 through page 5, line 24, and replace it with the following paragraph entitled "Description of the Figures".

DESCRIPTION OF THE FIGURES

Figure 1. DNA (SEQ ID NO: 1) and translated amino acid sequence (SEQ ID NO: 2) of *Cuphea hookeriana* KAS factor B clone chKAS B-2 are provided.

Figure 2. DNA (SEQ ID NO: 3) and translated amino acid sequence (SEQ ID NO: 4) of *Cuphea hookeriana* KAS factor B clone chKAS B-31-7 are provided.

Figure 3. DNA (SEQ ID NO: 5) and translated amino acid sequence (SEQ ID NO: 6) of *Cuphea hookeriana* KAS factor A clone chKAS A-2-7 are provided.

Figure 4. DNA (SEQ ID NO: 7) and translated amino acid sequence (SEQ ID NO: 8) of *Cuphea hookeriana* KAS factor A clone chKAS A-1-6 are provided.

Figure 5. DNA (SEQ ID NO: 9) and translated amino acid sequence (SEQ ID NO: 10) of *Cuphea pullcherrima* KAS factor B clone cpuKAS B/7-8 are provided.

Figure 6. DNA (SEQ ID NO: 11) and translated amino acid sequence (SEQ ID NO: 12) of *Cuphea pullcherrima* KAS factor B clone cpuKAS B/8-7A are provided.

Figure 7. DNA (SEQ ID NO: 13) and translated amino acid sequence (SEQ ID NO: 14) of *Cuphea pullcherrima* KAS factor A clone cpuKAS A/p7-6A are provided.

Figure 8. Preliminary DNA sequence (SEQ ID NO: 15) of *Cuphea pullcherrima* KAS factor A clone cpuKAS A/p8-9A is provided.

Figure 9. DNA (SEQ ID NO: 16) and translated amino acid sequence (SEQ ID NO: 17) of *Cuphea hookeriana* KASIII clone chKASIII-27 are provided.

Figure 10. The activity profile for purified cpuKAS B/8-7A using various acyl-ACP substrates is provided.

Figure 11. The activity profile for purified chKAS A-2-7 and chKAS A-1-6 using various acyl-ACP substrates is provided.

Figure 12. The activity profile for purified castor KAS factor A using various acyl-ACP substrates is provided.

Figure 13. The activity profile for purified castor KAS factor B using various acyl-ACP substrates is provided.

Figure 14. A graph showing the number of plants arranged according to C8:0 content for transgenic plants containing CpFatB1 versus transgenic plants containing CpFatB1 + chKAS A-2-7 is provided.

Figure 15. Graphs showing the %C10/%C8 ratios in transgenic plants containing ChFatB2 (4804-22-357) and in plants resulting from crosses between 4804-22-357 and 5401-9 (chKAS A-2-7 plants) are provided.

Figure 16. Graphs showing the %C10 + %C8 contents in transgenic plants containing ChFatB2 (4804-22-357) and in plants resulting from crosses between 4804-22-357 and 5401-9 (chKAS A-2-7 plants) are provided.

Figure 17. Graphs showing the %C10/%C8 ratios in transgenic plants containing ChFatB2 (4804-22-357) and in plants resulting from crosses between 4804-22-357 and 5413-17 (chKAS A-2-7 + CpFatB1 plants) are provided.

Figure 18. Graphs showing the %C10 + %C8 contents in transgenic plants containing ChFatB2 (4804-22-357) and in plants resulting from crosses between 4804-22-357 and 5413-17 (chKAS A-2-7 + CpFatB1 plants) are provided.

Figure 19. Graphs showing the %C12:0 in transgenic plants containing Uc FatB1 (LA86DH186) and in plants resulting from crosses with wild type (X WT) and with lines expressing Ch KAS A-2-7.

Figure 20. Graph showing the relative proportions of C12:0 and C14:0 fatty acids in the seeds of transgenic plants containing Uc FatB1 (LA86DH186) and in plants resulting from crosses with wild type (X WT) and with lines expressing Ch KAS A-2-7.

Figure 21. Graphs showing the %C18:0 in transgenic plants containing Garm FatB1 (5266) and in seeds of plants resulting from crosses with wild type (X WT) and with lines expressing

Ch KAS A-2-7.

Figure 22. The activity profile of Ch KAS A in protein extracts from transgenic plants containing Ch KAS A-2-7. Extracts were pretreated with the indicated concentrations of cerulenin.